ISSN 0300–8177
Kluwer
Boston, USA

Molecular and Cellular Biochemistry:

An International Journal for Chemical Biology in Health and Disease

CONTENTS VOLUME 261, Nos. 1 & 2, June 2004

DIABETES MELLITUS
Drs. Jaipaul Singh and Ernest Adeghate

Preface 1
E.N. Obineche, E. Adeghate, I.S. Chandranath, S. Benedict, L.S. Al Gafri and A. Adem: Alterations in atrial natriuretic peptide and its receptors in streptozotocin-induced diabetic rat kidneys 3–8
A. Kiersztan, K. Winiarska, J. Drozak, M. Przedlacka, M. Wegrzynowicz, T. Fraczyk and J. Bryla: Differential effects of vanadium, tungsten and molybdenum on inhibition of glucose formation in renal tubules and hepatocytes of control and diabetic rabbits: Beneficial action of melatonin and *N*-acetylcysteine 9–21
G.J. Litherland, E. Hajduch, G.W. Gould and H.S. Hundal: Fructose transport and metabolism in adipose tissue of Zucker rats: Diminished GLUT5 activity during obesity and insulin resistance 23–33
M.S. Al Shamsi, A. Amin and E. Adeghate: Beneficial effect of vitamin E on the metabolic parameters of diabetic rats 35–42
R. Padmanabhan and M. Shafiullah: Effect of maternal diabetes and ethanol interactions on embryo development in the mouse 43–56
M.A. Tormo, A. Romero de Tejada, I. Morales, S. Paredes, S. Sánchez, C. Barriga and R. Hernández: Orally administered tryptophan and experimental type 2 diabetes 57–61
I. Ahmed, E. Adeghate, E. Cummings, A.K. Sharma and J. Singh: Beneficial effects and mechanism of action of *Momordica charantia* juice in the treatment of streptozotocin-induced diabetes mellitus in rat 63–70
C. Piperi, C. Kalofoutis, I. Lagogianni, G. Troupis and A. Kalofoutis: Comparison of raloxifene and atorvastatin effects on serum lipids composition of healthy post-menopausal women 71–75
J.F.B. Morrison, S. Dhanasekaran and R. Sheen: Effects of age and streptozotocin-induced diabetes on biogenic amines in rat tail artery 77–82
R. Patel, M.D. Yago, M. Manäs, E.M. Victoria, A. Shervington and J. Singh: Mechanism of exocrine pancreatic insufficiency in streptozotocin-induced diabetes mellitus in rat: Effect of cholecystokinin-octapeptide 83–89
K. Winiarska, J. Drozak, M. Wegrzynowicz, T. Fraczyk and J. Bryla: Diabetes-induced changes in glucose synthesis, intracellular glutathione status and hydroxyl free radical generation in rabbit kidney-cortex tubules 91–98
E. Cummings, H.S. Hundal, H. Wackerhage, M. Hope, M. Belle, E. Adeghate and J. Singh: *Momordica charantia* fruit juice stimulates glucose and amino acid uptakes in L6 myotubes 99–104
R. Patel, J. Singh, M.D. Yago, J.R. Vilchez, E. Martínez-Victoria and M. Mañas: Effect of insulin on exocrine pancreatic secretion in healthy and diabetic anaesthetised rats 105–110
P.J. Atherton, J.M. Higginson, J. Singh and H. Wackerhage: Concentrations of signal transduction proteins mediating exercise and insulin responses in rat extensor digitorum longus and soleus muscles 111–116
H. Kiaris, I. Chatzistamou, Ch. Kalofoutis, H. Koutselini, Ch. Piperi and A. Kalofoutis: Tumour–stroma interactions in carcinogenesis: Basic aspects and perspectives 117–122
M.H.M. Al Ghafli, R. Padmanabhan, H.H. Kataya and B. Berg: Effects of α-lipoic acid supplementation on maternal diabetes-induced growth retardation and congenital anomalies in rat fetuses 123–135
A.D. Mata, D. Marques, S. Rocha, H. Francisco, C. Santos, M.F. Mesquita and J. Singh: Effects of diabetes mellitus on salivary secretion and its composition in the human 137–142
F. Al-Ghaithi, M.R. El-Ridi, E. Adeghate and M.H. Amiri: Biochemical effects of *Citrullus colocynthis* in normal and diabetic rats 143–149
S. Biswas, F. Harris, J. Singh and D. Phoenix: Role of calpains in diabetes mellitus-induced cataractogenesis: A mini review 151–159
F. Harris, L. Chatfield, J. Singh and D.A. Phoenix: Role of calpains in diabetes mellitus: A mini review 161–167
S. Biswas, F. Harris, J. Singh and D.A. Phoenix: The *in vitro* retardation of porcine cataractogenesis by the calpain inhibitor, SJA6017 169–173
S. Mahay, E. Adeghate, M.Z. Lindley, C.E. Rolph and J. Singh: Streptozotocin-induced type 1 diabetes mellitus alters the morphology, secretory function and acyl lipid contents in the isolated rat parotid salivary gland 175–181
W. Gillibrand, D. Broadbent, S. Harding and J. Vora: The English national risk-reduction programme for preservation of sight in diabetes 183–185
E. Adeghate: Molecular and cellular basis of the aetiology and management of diabetic cardiomyopathy: A short review 187–191
P.S. Tappia, G. Asemu, N. Aroutiounova and N.S. Dhalla: Defective sarcolemmal phospholipase C signaling in diabetic cardiomyopathy 193–199
M. Hussain, A. Chorvatova and J. Singh: Physiological effects and biochemical properties of a serum protein that produces positive inotropic and chronotropic effects on isolated guinea pig atria 201–207

Electronic journals at
KluwerOnline
WWW.KLUWERONLINE.NL
Contact your librarian for more information

M. Graham, A. Qureshi, R. Noueihed, S. Harrison and F.C. Howarth: Effects of halothane, isoflurane, sevoflurane and desflurane on contraction of ventricular myocytes from streptozotocin-induced diabetic rats 209–215
A. Chorvatova, R. Snowdon, G. Hart and M. Hussain: Effects of pressure overload-induced hypertrophy on TTX-sensitive inward currents in guinea pig left ventricle 217–226
F.C. Howarth, A. Qureshi and J. Singh: Effects of acidosis on ventricular myocyte shortening and intracellular Ca^{2+} in streptozotocin-induced diabetic rats 227–233
N.K. Bracken, A.J. Woodall, F.C. Howarth and J. Singh: Voltage-dependence of contraction in streptozotocin-induced diabetic myocytes 235–243
Z. Vasanji, N.S. Dhalla and T. Netticadan: Increased inhibition of SERCA2 by phospholamban in the type I diabetic heart 245–249
A. Woodall, N. Bracken, A. Qureshi, F.C. Howarth and J. Singh: Halothane alters contractility and Ca^{2+} transport in ventricular myocytes from streptozotocin-induced diabetic rats 251–261
G.D. Fallow and J. Singh: The prevalence, type and severity of cardiovascular disease in diabetic and non-diabetic patients: A matched-paired retrospective analysis using coronary angiography as the diagnostic tool 263–269
J. Machackova, X. Liu, A. Lukas and N.S. Dhalla: Renin–angiotensin blockade attenuates cardiac myofibrillar remodelling in chronic diabetes 271–278

Index to Volume 262 279–282

Instructions for Authors 283